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ATTORNEY DOCKET NO. 10030589-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Daniel B. Roitman, et al.

Serial No.: 10/669,620

Examiner: TBD

Filing Date: September 24, 2003

Group Art Unit: 1641

Title: NEAR-FIELD AND FAR-FIELD ENCODING OF MICROBEADS FOR BIOASSAYS

COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- (a)  Under 37 CFR 1.97(b).  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first Office action on the merits; whichever occurs last).
- (b)  Under 37 CFR 1.97(c) together with *either* a:  
 Statement under CFR 1.97(e), or  
 \$180.00 fee under 37 CFR 1.17(p).  
(After the CFR 1.97(b) time period, but before a final action or notice of allowance, whichever occurs first).
- (c)  Under 37 CFR 1.97(d) together with: a  
Statement under 37 CFR 1.97(e), *and*  
\$180.00 fee as set forth in 37 CFR 1.17(p).  
(After a final action or notice of allowance, whichever occurs first, but before payment of the issue fee).

STATEMENT UNDER 37 CFR 1.97(e)

The undersigned certifies that:

- Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement, *or*  
 No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

PRIOR APPLICATIONS

References identified with an asterisk (\*) in the enclosed PTO Form 1449, were disclosed in prior Patent Application No. 10/379,107, filed March 4, 2003, now U.S. Patent No. , and, as such, copies thereof are not included pursuant to the provisions of 37 CFR 1.98(d).

FOREIGN LANGUAGE DOCUMENTS

A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

ATTORNEY DOCKET NO. 10020507-1

Please charge to Deposit Account **50-1078** the sum of \_\_\_\_\_. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **50-1078** pursuant to 37 CFR 1.25.

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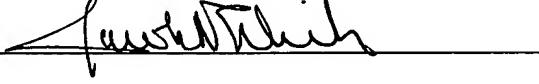
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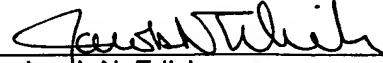
Date of Facsimile:

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Signature: 

Respectfully submitted,  
Daniel B. Roitman, et al.

By



Jacob N. Erlich  
Attorney/Agent for Applicant(s)

Reg. No. 24,338

Date: February 19, 2004

Telephone No. (617) 854-4000



FEB 23 2004

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**LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT**

**(Use several sheets if necessary)**

**ATTORNEY DOCKET NO.**  
**10030589-1**

**SERIAL NO.**  
**10/669,620**

**APPLICANT**

**FILING DATE**

**GROUP**  
**1641**

## **REFERENCE DESIGNATION**

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENT**

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

- \* *Penetration-Controlled Reactions in Organized Monolayer Assemblies. 2. Aqueous Permanganate Interaction with Self-Assembling Monolayers of Long-Chain Surfactants*, Rivka Maoz et al., Langmuir, Vol. 3, No. 6, 1045-1051, 1987.
  - \* *Mechanism of Reactions on Colloidal Microelectrodes and Size Quantization Effects*, Armin Henglein, Electrochemistry II; E. Steckhan, ed., ISBN 3-540-18226-8, ISBN 0-387-18226-8, Springer-Verlag Berlin, Heidelberg, New York, 112-175, 1988.
  - \* *Small-Particle Research: Physicochemical Properties of Extremely Small Colloidal Metal and Semiconductor Particles*, Armin Henglein, Chemical Reviews, Vol. 89, No. 8, 1861-1873. American Chemical Society, 1989.

**EXAMINER**

**DATE CONSIDERED**

<b>Form PTO-1449</b> <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  <b>(Use several sheets if necessary)</b>	<b>ATTORNEY DOCKET NO.</b>	<b>SERIAL NO.</b>
	10030589-1	10/669,620
	<b>APPLICANT</b>	
	Roitman, Daniel B. et al.	
<b>FILING DATE</b>	<b>GROUP</b>	
September 24, 2003	N/A	

## **REFERENCE DESIGNATION**

## **U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENT

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

- \* *Testing of dye sensitized TiO<sub>2</sub> solar cells I: Experimental photocurrent output and conversion efficiencies*, Greg Smestad et al., Solar Energy Materials and Solar Cells, Vol. 32, No. 3, 259-272, March, 1994.
  - \* *Mechanisms of Organic Transformations on Semiconductor Particles*, D.W. Bahnemann, Photochemical Conversion and Storage of Solar Energy, ISBN 0-7923-1194-9, 251-276, 1991.
  - \* *The Study of the Gas-Solid Interaction of Acetic Acid with a Cuprous Oxide Surface Using Reflection-Absorption Spectroscopy*, Harland G. Tompkins, Journal of Colloid and Interface Science, Vol. 49, No. 3, 410-421, December, 1974.

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**DATE CONSIDERED**

\* Copies of these references are not enclosed Pursuant to 37 CFR 1.98(d). (See accompanying IDS)

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## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENT**

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

- \* *Self-Assembled Monolayers and Lithography*, George M. Whitesides, et al., The Robert A. Welsh Foundation 39<sup>th</sup> Conference on Chemical Research on Nanophase Chemistry, Houston, Texas, 109-121, October 23-24, 1995.
  - \* *Colloidal Semiconductor Q-Particles: Chemistry in the Transition Region Between Solid State and Molecules*, Horst Weller, Angew. Chem. Int. Ed. Engl., Vol. 32, No. 1, 41-53, 1993.
  - \* *Combinatorial Discovery of New Photocatalysts for Water Purification with Visible Light*, Christian Lettmann et al., Angew. Chem. Int. Ed., Vol. 40, No. 17, 3160-3164, 2001.

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September 24, 2003	N/A	

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## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENT**

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION YES NO
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

- \* *Adsorption of Ordered Zirconium Phosphonate Multilayer Films on Silicon and Gold Surfaces*,  
Haiwon Lee et al., Journal of Physical Chemistry, Vol. 92, No. 9, 2597-2601, 1988.

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\* 2003/0186245 A1. 10/2/03. Roitman et al.

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\* *Spontaneously Organized Molecular Assemblies. I. Formation, Dynamics, and Physical Properties of n-Alkanoic Acids Adsorbed from Solution on an Oxidized Aluminum Surface*,  
David L. Allara, Langmuir, Vol.1, No. 1, 45-52, 1985.

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## **FOREIGN PATENT DOCUMENT**

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION YES NO
1144					

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

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|--|---|
|  | <p>* <i>Visible-Light Detoxification and Charge Generation by Transition Metal Chloride Modified Titania</i>, Ling Zang et al., <u>Chem. Eur. J.</u>, Vol. 6, No. 2, 379-384, 2000.</p> |
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